

## ABSTRACT

**CODING AND DECODING METHOD OF A PICTURE SEQUENCE BY HIERARCHICAL  
TEMPORAL ANALYSIS**

The method realizes a motion compensated temporal filtering (MCTF), the temporal filtering being replaced by an intra mode coding to obtain at least one low (L) or high (H) frequency picture if the current picture has a level of correlation with a lower previous picture at a threshold, the low frequency pictures obtained (L) being thus scaled to be adapted, at the energy level, to the pictures obtained by motion compensated temporal filtering, and is characterized in that, at the end of analysis:

- it selects the pictures obtained by intra coding of a picture of a low decomposition level with the additional condition, for the high frequency pictures, that this picture is derived itself from an intra coding.

- it calibrates the picture selected by carrying out at least one reverse step of the scaling step.

The applications relate to video compression with temporal prediction.

Fig. 4.